

Form PTO-1449		Attorney Docket P65684US1	Application No. (NEW)
Information Disclosure Citation		Applicant Robert R. STEUER et al.	
		Filing Date December 9, 2003	Group Art Unit (not yet assigned)

U.S. Patent Documents

Examiner Initial		Patent Number	Date	Name	Class	Sub-Class	Filing Date
MR	AA	H1,114	12/1992	Schweitzer et al.			
MR	AB	3,638,640	02/01/1972	Shaw			
MR	AC	3,880,151	04/29/1975	Nilsson et al.			
MR	AD	4,014,321	03/29/1977	March			
MR	AE	4,081,372	03/28/1978	Atkin et al.			
MR	AF	4,086,915	05/02/1978	Kofsky et al.			
MR	AG	4,167,331	09/11/1979	Nielsen			
MR	AH	4,181,610	01/01/1980	Shintani et al.			
MR	AI	4,223,680	09/23/1980	Jöbsis			
MR	AJ	4,266,554	05/12/1981	Hamaguri			
MR	AK	4,295,470	10/20/1981	Shaw et al.			

Foreign Patent Documents

		Document Number	Date	Country	Class	Sub-Class	Trans-lation
MR	AL	EP104772B1	04/1984	Europe			Yes No
MR	AM	EP160768B1	11/1985	Europe			Yes No
MR	AN	WO 86/06946	12/1986	WIPO			Yes No
MR	AO	WO 89/01758	03/1989	WIPO			Yes No
MR	AP	WO 93/06456	04/1993	WIPO			Yes No

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

MR	AR	J.P. Payne and J.W. Severinghaus, Eds., <i>Pulse Oximetry</i> , Chapters 1 and 2 (©1986).
MR	AS	John D. Bower and Thomas G. Coleman, <i>Circulatory Function During Chronic Hemodialysis</i> , Vol. XV <i>Trans. Amer. Soc. Artif. Int. Organs</i> , 1969, 373-377.
MR	AT	Larry Reynolds, C. Johnson, A. Ishimaru, "Diffuse reflectance from a finite blood medium: applications to the modeling of fiber optic catheters," Sept. 1976, Vol. 15, No. 9, <i>Applied Optics</i> pp. 2059-2067.

Examiner	Date Considered
<i>Matthew Koen</i>	<i>1/6/05</i>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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MR	BA	4,416,285	11/22/1983	Shaw et al.			
MR	BB	4,446,871	05/08/1984	Imura			
MR	BC	4,653,498	03/31/1987	New, Jr. et al.			
MR	BD	4,655,225	04/07/1987	Dahne et al.			
MR	BE	4,685,464	08/11/1987	Goldberger et al.			
MR	BF	4,714,080	12/22/1987	Edgar, Jr., et al.			
MR	BG	4,770,179	09/13/1988	New et al.			
MR	BH	4,805,623	02/21/1989	Jöbsis			
MR	BI	4,819,752	04/11/1989	Zelin			
MR	BJ	4,821,734	04/18/1989	Koshino			
MR	BK	4,824,242	04/25/1989	Frick et al.			

Foreign Patent Documents

		Document Number	Date	Country	Class	Sub-Class	Trans-lation
MR	BL	EP 0 529 412	03/03/1993	EPO			Yes No
	BM						Yes No
	BN						Yes No
	BO						Yes No
	BP						Yes No

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

MR	BR	R.N. Greenwood, C. Aldridge, L. Goldstein, L.R.I. Baker and W.R. Cattell, "Assessment of arteriovenous fistulae from pressure and thermal dilution studies: clinical experience in forearm fistulae," <i>Clinical Nephrology</i> , Vol. 23, NO. 4-1985, pp. 189-197.
MR	BS	R.N. Greenwood, C. Aldridge and W.R. Cattell, "Serial blood water estimations and in-line blood viscometry: the continuous measurement of blood volume during dialysis procedures," <i>Clinical Science</i> (1984)66, pp. 575-583.
MR	BT	C. Aldridge, R.N. Greenwood, W.R. Cattell and R.V. Barrett, "The assessment of arteriovenous fistulae created for haemodialysis from pressure and thermal dilution measurements," <i>Journal of Medical Engineering & Technology</i> , Vol. 8, No. 3, (May/June), pp. 118-124.

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MM	CA	4,825,872	05/02/1989	Tan et al.			
MM	CB	4,825,879	05/02/1989	Tan et al.			
MM	CC	4,832,484	05/23/1989	Aoyagi et al.			
MM	CD	4,863,265	09/05/1989	Flower et al.			
MM	CE	4,867,557	09/19/1989	Takatani et al.			
MM	CF	4,920,972	05/01/1990	Frank et al.			
MM	CG	4,925,299	05/15/1990	Meisberger et al.			
MM	CH	5,028,787	07/02/1991	Rosenthal et al.			
MM	CI	5,035,243	07/30/1991	Muz			
MM	CJ	5,048,524	09/17/1991	Bailey			
MM	CK	5,054,487	10/08/1991	Clarke			

Foreign Patent Documents

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	CL						Yes No
	CM						Yes No
	CN						Yes No
	CO						Yes No
	CP						Yes No

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

MM	CR	L. Goldstein, L. Pavitt, R.N. Greenwood, C. Aldridge, L.R.I. Baker and W.R. Cattell, "The Assessment of Arteriovenous Fistulae From Pressure and Recirculation Studies," <i>ProcEDTA-ERCA</i> (1985) Vol. 14., pp. 207-215.
MM	CS	R.N. Greenwood, C. Aldridge, L. Goldstein, L.R.I. Baker and W.R. Cattell, "Assessment of Arteriovenous Fistulas From Pressure and Recirculation Studies: Clinical Experience In 215 Upper Limb Fistulas," <i>ProcEDTA-ERA</i> (1985), Vol. 22, pp. 296-302.
MM	CT	Joseph M. Schmitt, James D. Meindl and Frederick G. Mihm, "An Integrated Circuit-Based Optical Sensor for In Vivo Measurement of Blood Oxygenation," <i>IEEE Transactions On Biomedical Engineering</i> , Vol. BME-33, No. 21, Feb. 1986, pp. 98-107.

Examiner	<i>Matthew Knezevich</i>	Date Considered
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JK	DA	5,057,695	10/15/1991	Hirao et al.			
JK	DB	5,058,587	10/1991	Kohno et al.			
JK	DC	5,059,394	10/22/1991	Phillips et al.			
JK	DD	5,066,859	11/19/1991	Karkar et al.			
JK	DE	5,092,836	03/03/1992	Polaschegg			
JK	DF	5,101,825	04/07/1992	Gravenstein et al.			
JK	DG	5,111,817	05/12/1992	Clark et al.			
JK	DH	5,127,406	07/07/1992	Yamaguchi			
JK	DI	5,137,023	08/11/1992	Mendelson et al.			
JK	DJ	5,158,091	10/27/1992	Butterfield et al.			
JK	DK	5,193,543	03/16/1993	Yelderman			

Foreign Patent Documents

		Document Number	Date	Country	Class	Sub-Class	Trans-lation
	DL						Yes No
	DM						Yes No
	DN						Yes No
	DO						Yes No
	DP						Yes No

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

JK	DR	Joseph M. Schmitt, Fred G. Mihm and James Meindl, <i>New Methods for Whole Blood Oximetry</i> , <i>Annals of Biomedical Engineering</i> , Vol., 14, pp. 35-52, 1986.
JK	DS	Mark R. Arnfield, J. Tulip and Malcolm McPhee, "Optical Propagation in Tissue With Anisotropic Scattering," <i>IEEE Transactions on Biomedical Engineering</i> , Vol. 35, No. 5, May 1988, pp. 372-381.
JK	DT	N.M. Krivitski, "Theory and validation of access flow measurements by dilution technique during hemodialysis," <i>Kidney Int</i> 48:244-250, 1995

Examiner	<i>Matthew Kline</i>	Date Considered
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<i>MR</i>	EA	5,237,999	08/24/1993	Von Berg			
<i>MR</i>	EB	5,285,783	02/15/1994	Secker			
<i>MR</i>	EC	5,351,686	10/04/1994	Steuer et al.			
<i>MR</i>	ED	5,456,253	10/10/1995	Steuer et al.			
<i>MR</i>	EE	5,499,627	03/19/1996	Steuer et al.			
<i>MR</i>	EF	5,520,177	05/28/1996	Ogawa et al.			
<i>MR</i>	EG	5,551,422	09/3/1996	Simonsen et al.			
<i>MR</i>	EH	5,595,182	01/21/1997	Krivitski			
<i>MR</i>	EI	5,785,657	07/28/1998	Breyer et al.			
<i>MR</i>	EJ	5,797,841	08/25/1998	Delonzor et al.			
<i>MR</i>	EK	5,803,908	09/08/1998	Steuer et al.			

Foreign Patent Documents

		Document Number	Date	Country	Class	Sub-Class	Trans-lation
	EL						Yes No
	EM						Yes No
	EN						Yes No
	EO						Yes No
	EP						Yes No

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

<i>MR</i>	ER	N.M. Krivitski, "Novel method to measure access flow during hemodialysis by ultrasound velocity dilution technique," <i>ASAIO J</i> 41:M741-M745, 1995
<i>MR</i>	ES	T.A. Depner and N.M. Krivitski, "Clinical measurement of blood flow in hemodialysis access fistulae and grafts by ultrasound dilution," <i>ASAIO J</i> 41:M745-M749, 1995)
<i>MR</i>	ET	D. Yarar et al., "Ultrafiltration method for measuring vascular access flow rates during hemodialysis," <i>Kidney Int.</i> , 56: 1129-1135 (1999)

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<i>ML</i>	FA	5,817,009	10/06/1998	Rosenheimer et al.			
<i>AK</i>	FB	5,974,337	10/26/1999	Kaffka et al.			
<i>NY</i>	FC	6,041,246	03/21/2000	Krivitski et al.			
<i>MS</i>	FD	6,117,099	09/12/2000	Steuer et al.			
<i>MM</i>	FE	6,153,109	11/28/2000	Krivitski			
<i>MM</i>	FF	6,167,765	01/02/2001	Weitzel			
<i>CMA</i>	FG	6,189,388	02/20/2001	Cole et al.			
<i>MM</i>	FH	6,210,591	04/03/2001	Krivitski			
<i>MX</i>	FI	6,452,371	09/17/2002	Brugger			
	FJ						
	FK						
Foreign Patent Documents							
		Document Number	Date	Country	Class	Sub-Class	Trans-lation
	FL						Yes No
	FM						Yes No
	FN						Yes No
	FO						Yes No
	FP						Yes No
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>NYC</i>	FR	N.M. Krivitski et al., "Saline Release Method to Measure Access Flow (AF) by Ultrasound Dilution during Hemodialysis," <i>JASN Abstracts</i> , 8:164A, 1997					
	FS						
	FT						
Examiner	<i>Matthew Kline</i>			Date Considered <i>10/05</i>			
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